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No abstract of this article is here attempted, as a translation of the entire paper may be found in the *Astrophysical Journal* for February, 1897.

It is of interest, however, to note that, according to Professor VOGEL'S tables, giving the intensity of the transmitted in terms of the incident light, as the thickness of the objective varies, the visual objective of the thirty-six-inch telescope of the Lick Observatory (thickness about $7\frac{1}{4}$ cm.) transmits about eighty-eight per cent. of the *visual* rays that fall upon it, if allowance is made for absorption only, and seventy-four per cent., allowing for absorption and reflection. When the photographic correcting lens is added, the thickness of the objective is approximately 12 cm., and the intensity of the transmitted *actinic* rays, in terms of the incident, is sixty per cent. when absorption alone is considered, and forty-nine per cent. when absorption and reflection are both taken into account.

R. G. AITKEN.

March 15, 1897.

AWARDS OF THE COMET-MEDAL OF THE ASTRONOMICAL
SOCIETY OF THE PACIFIC.

The DONOHUE Comet-Medal has been awarded as follows, since its foundation:

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| 1. W. R. BROOKS, March 19, 1890. | 16. W. F. GALE, April 2, 1894. |
| 2. W. F. DENNING, July 23, 1890. | 17. J. M. SCHAEFERLE, April 16, 1893. |
| 3. J. COGGIA, July 18, 1890. | 18. E. D. SWIFT, November 20, 1894. |
| 4. R. SPITALER, November 16, 1890. | 19. L. SWIFT, August 20, 1895. |
| 5. T. ZONA, November 15, 1890. | 20. C. D. PERRINE, November 17, 1895. |
| 6. E. E. BARNARD, March 29, 1891. | 21. W. R. BROOKS, November 21, 1895. |
| 7. E. E. BARNARD, October 3, 1891. | 22. C. D. PERRINE, February 15, 1896. |
| 8. L. SWIFT, March 6, 1892. | 23. L. SWIFT, April 13, 1896. |
| 9. W. F. DENNING, March 18, 1892. | 24. W. E. SPERRA, August 31, 1896. |
| 10. W. R. BROOKS, August 28, 1892. | 25. E. GIACOBINI, September 4, 1896. |
| 11. E. E. BARNARD, October 12, 1892. | 26. C. D. PERRINE, November 2, 1896. |
| 12. E. HOLMES, November 6, 1892. | 27. C. D. PERRINE, December 8, 1896. |
| 13. W. R. BROOKS, November 19, 1892. | |
| 14. W. R. BROOKS, October 16, 1893. | |
| 15. W. F. DENNING, March 26, 1894. | |